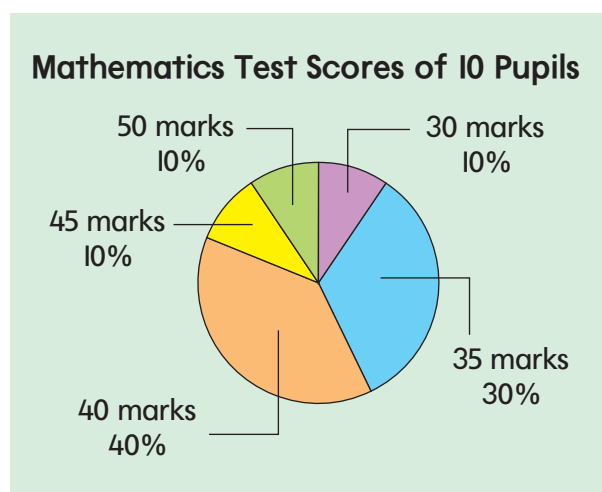


**B Determine the frequency, mode, maximum value, minimum value, range and mean from a pie chart**

Tests are given to pupils to gain information about how much knowledge and skills pupils have learnt over a period of time.

**Example**

Puan Rosnah gave a Mathematics test to pupils of Year 6 Amanah. The full score for the test is 50 marks. The test scores for 10 pupils are shown in the pie chart below. Determine the frequency for 35 marks. Then, determine the mode, the maximum and minimum values, the range and the mean.



First, find the number of pupils for each score.



$$30 \text{ marks} : 10\% \text{ of } 10 \text{ pupils} = \frac{10}{100} \times 10 = 1 \text{ pupil}$$

$$35 \text{ marks} : 30\% \text{ of } 10 \text{ pupils} = \frac{30}{100} \times 10 = 3 \text{ pupils}$$

$$40 \text{ marks} : 40\% \text{ of } 10 \text{ pupils} = \frac{40}{100} \times 10 = 4 \text{ pupils}$$

$$45 \text{ marks} : 10\% \text{ of } 10 \text{ pupils} = \frac{10}{100} \times 10 = 1 \text{ pupil}$$

$$50 \text{ marks} : 10\% \text{ of } 10 \text{ pupils} = \frac{10}{100} \times 10 = 1 \text{ pupil}$$